

## Design Fidelity Score Rubric

HRISudio Pilot Study – Completed by researcher after reviewing the exported project file

Participant ID: W-03

Date: 2026-04-07

Condition: ☐ HRISudio ☒ Choregraphe

**Scoring:** Full points if Present *and* Correct. Half points if Present but not Correct. Zero if not Present.

**Assisted (T):** Mark T if a tool-operation intervention was given for this item. Recorded for reference — does *not* affect the Points total or the DFS.

**Gestures (items 5–7):** Correct only if gesture is a distinct action or animation node separate from the speech action. Auto-motion from “Animated Say” does *not* qualify — it selects movements non-deterministically, so output varies between runs even with the same program.

**Branching (item 8):** Correct only if a dedicated conditional control-flow node (Switch, Choice, or equivalent) is wired to a voice or input trigger. Manual re-routing during execution does *not* satisfy this criterion.

Component	Present?	Correct?	Assisted?	Points
<b>Speech Actions</b> 40 pts total				
1. Introduction: “Hello. I want to tell you about Kai...”	<input checked="" type="checkbox"/> / N	<input checked="" type="checkbox"/> / N	T / –	<b>10</b> /10
2. Narrative: “Kai had been on the Martian surface for six days...”	<input checked="" type="checkbox"/> / N	Y / <input checked="" type="checkbox"/>	T / –	<b>5</b> /10
3. Question: “What color was the rock Kai found?”	<input checked="" type="checkbox"/> / N	<input checked="" type="checkbox"/> / N	T / –	<b>10</b> /10
4. Both branch responses (correct <i>and</i> incorrect)	<input checked="" type="checkbox"/> / N	Y / <input checked="" type="checkbox"/>	T / –	<b>5</b> /10
<b>Gestures &amp; Actions</b> 30 pts total				
5. Open-hand wave during introduction	<input checked="" type="checkbox"/> / N	Y / <input checked="" type="checkbox"/>	T / –	<b>5</b> /10
6. At least one narrative gesture (pause or look down)	<input checked="" type="checkbox"/> / N	<input checked="" type="checkbox"/> / N	<input checked="" type="checkbox"/> / –	<b>10</b> /10
7. Nod (correct branch) or head shake (incorrect branch)	<input checked="" type="checkbox"/> / N	Y / <input checked="" type="checkbox"/>	T / –	<b>5</b> /10
<b>Control Flow &amp; Logic</b> 30 pts total				
8. Conditional branch triggers on participant’s answer	Y / <input checked="" type="checkbox"/>	Y / <input checked="" type="checkbox"/>	T / –	<b>0</b> /15
9. All four steps present in correct sequence	<input checked="" type="checkbox"/> / N	<input checked="" type="checkbox"/> / N	T / –	<b>15</b> /15

Raw Total: 65 / 100

Tool-assisted items (T, for reference): 1

**Design Fidelity Score (DFS):** 65 % DFS = Raw Total. T marks are recorded only; they do not affect the score.

**Notes on Implementation Quality:**

Overall Assessment — Did the wizard's design faithfully represent the specification?

Yes, wizard's design, although complicated, attempted to implement all steps and actions.